

# EXHIBIT 1



## **TT22 Dive Plan / Project Plan**

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## TT22 Dive Plan / Project Plan



Rev	Date	Reason for Issue	Originator	Reviewer	Approver
01	31/07/2022	Issued for Planning purposes	OM	DS	
02	19/08/2022	Draft issued for comment	DS	DS	
03	19/08/2022	Added remaining crew years of experience	OM	DS	

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## TT22 Dive Plan / Project Plan

**Background:**

Building on extensive experience with Ultra-Deepwater Simultaneous Operations (Simops) of x2 Remotely Operated Vehicles, (ROV's) conducting non-intrusive photogrammetry and mapping projects. Magellan intends to perform a hi-resolution photogrammetry and laser mapping survey of the target TT22 during the operational window summer 2022. Operations will be timed to not interfere with any other planned expeditions to the site.

**Objectives:**

The 'as time allows' objectives for the project are as follows:

1. Acquire detailed laser and photogrammetric data of the bow and stern sections of Titanic.
2. Document the entire expedition subsea with x2 off, 4k cameras.
3. Maintain zero contact policy with the area and its contents. Magellan will maintain a Policy of respect for the memorial site to preserve the site and its surroundings.

**Equipment:**

To accomplish this project, Magellan's two ARGUS worker XL ROVs ('Romeo' and 'Juliet') will each be outfitted with the following equipment:

**Juliet** will be equipped with a laser survey skid, complete with stills camera, fibre optic mux, environmental sensors, and a SprintNAV 500 INS. Magellan seeks to highlight that both (all) manipulators will be removed from the ROV for the entire period of the Draft Dive Plan. The ROV will at all times maintain positive buoyant to ensure it always floats clear of the target in the unlikely event of a power failure.

**Romeo** will be equipped with two 4k cameras, either Sony UMC or Panasonic Lumix's (interchanged as required). Romeo will retain manipulators, allowing it to assist Juliet in the unlikely event of power failure (see above). Magellan seeks to categorically confirm No Manipulator interaction with the site will be performed whatsoever. The ROV will at all times maintain positive buoyant to ensure it always floats clear of the target in the unlikely event of a power failure.

**Methodology:**

The expedition surface vessel will arrive on site it will set up on Dynamic Positioning (DP) over the top the bow section of TT22 and Romeo and Juliet will both be launched at a safe distance from the target.



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Once at depth, Juliet will run a patch test across a known point to confirm laser data offsets and confirm the laser and camera are functioning correctly, before commencing operations on the bow.

Romeo will alternate between filming Juliet and documenting sections of Titanic while Juliet is running horizontal lines, above the targets main deck. While Juliet is running vertical lines, below the main deck, Romeo shall monitor Juliet to ensure no contact with the target. Romeo will be able to engage (as per previous specifics highlighting at all times positive buoyancy) with Juliet in the event of a power loss or control system issue to ensure she is moved away from the target.

Once bow section data acquisition is complete, the vessel will move in DP to the aft/stern section with the subs at depth, acquiring debris field laser/4K data, then commence data acquisition at aft section.

Proposed line plans are shown in Figures 1 & 2 below. These plans may be adapted to environmental conditions on site at the time of the operations.

Simops, with a second ROV available at all times to monitor or assist the other ROV will provide a high degree of control and ensure that no part of the either the system or their umbilical contacts the target. In this manner thruster wash from the ROV's can also be monitored minimising the potential for sediment disturbance.

### Expected Timetable:

#### Day 1 – Commence operations

- Surface Vessel arrival on site – setup on DP
- Deploy both ROV's to seabed
- Commence bow horizontal lines/patch test of first few lines, 2<sup>nd</sup> ROV monitors scanning ROV to ensure correct vessel offset and umbilical management
- 2<sup>nd</sup> ROV then commence photogrammetry program
- Bow horizontal survey complete

#### Day 2 – continue operations

- Commence vertical survey lines
- Complete vertical lines, commence move to aft/stern section of site, transit with subs at depth acquiring debris field data in transit
- Commence horizontal lines over the stern/aft section

#### Day 3 – complete operations

- Horizontal survey lines completed including tie lines

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- Commence aft/stern vertical survey lines
- Aft/stern vertical lines completed
- Recover ROV's and depart site

### TT22 BOW SECTION LINE PLAN OVERVIEW

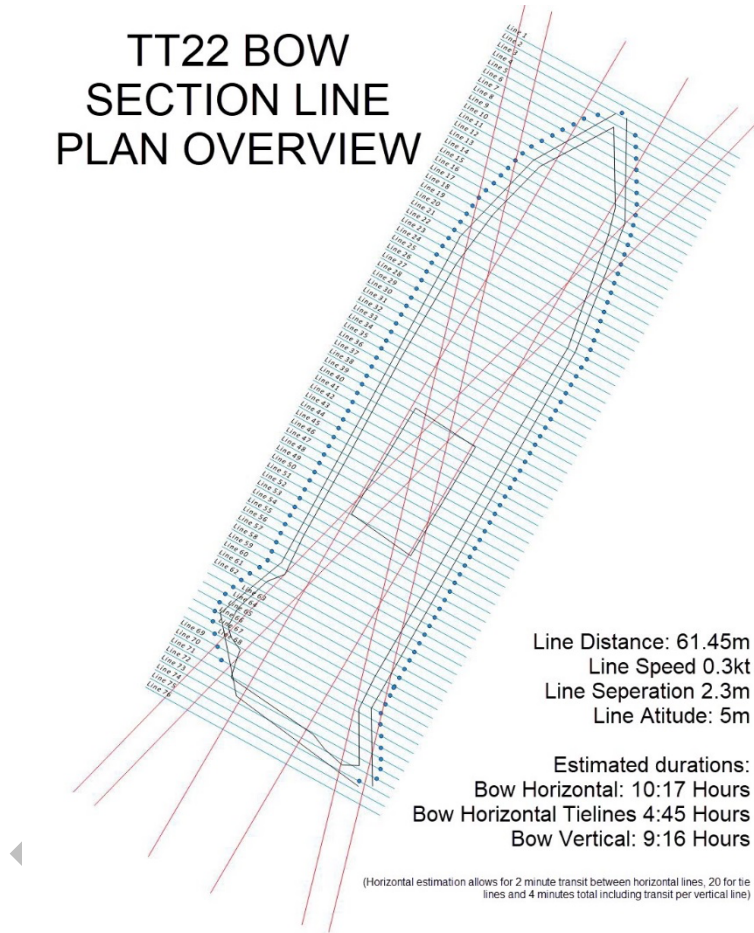
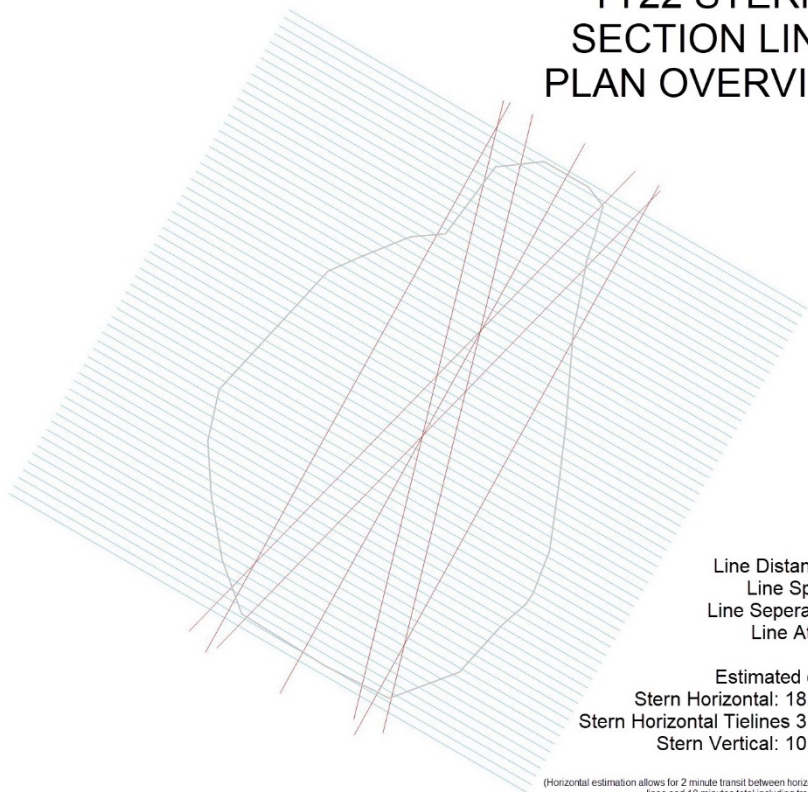


Figure 1 Bow line plan

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TT22 STERN  
SECTION LINE  
PLAN OVERVIEW



Line Distance: 147m  
Line Speed 0.3kt  
Line Separation 2.3m  
Line Attitude: 5m

Estimated durations:  
Stern Horizontal: 18:10 Hours  
Stern Horizontal Tielines 3:58 Hours  
Stern Vertical: 10:40 Hours

(Horizontal estimation allows for 2 minute transit between horizontal lines, 20 for tie lines and 10 minutes total including transit per vertical line)

Figure 2 Stern Line Plan

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## TT22 Dive Plan / Project Plan

**Team Size and Qualifications:**

In addition to vessel crew, we have the following personnel on-board for this project.

TT22 Team		
Position	Role	Experience
Offshore Manager	On-board management	30+ Years in offshore/survey industry
Data Manager	Data acquisition	20 years, specialist in subsea archaeological mapping/data
Survey/Data 1	Positioning/data logging	11 years in marine survey industry
Survey/Data 2	Positioning/data logging	10 years in marine survey industry
Survey/Data 3	Positioning/data logging	17 years in the marine survey industry
Survey/Data 4	Positioning/data logging	10 years in marine survey industry
USBL Tech	Laser operation	11 years as offshore survey equipment specialist
Technical Director	Photogrammetry expert	12 years, multiple large projects completed
Camera operator	Subsea camera op	47 years, award winning specialist in underwater film
ROV Supervisor 1	Supv. ROV Juliet	18 years ROV experience
ROV Supervisor 2	Supv. ROV Juliet	14 years ROV experience
ROV Supervisor 3	Supv. ROV Romeo	19 years ROV experience
ROV Supervisor 4	Supv. ROV Romeo	10 years ROV experience
ROV Pilot/Tech	Pilot/technician	2 years ROV experience
ROV Pilot/Tech	Pilot/technician	11 years ROV experience
ROV Pilot/Tech	Pilot/technician	16 years ROV experience
ROV Pilot/Tech	Pilot/technician	10 years offshore as rigger, 2 years ROV
ROV Pilot/Tech	Pilot/technician	10 ROV experience
ROV Pilot/Tech	Pilot/technician	14 ROV experience
ROV Pilot/Tech	Pilot/technician	10 ROV experience
ROV Pilot/Tech	Pilot/technician	15 ROV experience
IT/AST	Asset support/IT	2 years with Magellan, offshore

**Data processing:**

Apart from a preliminary inspection of data acquired, to ensure full coverage is obtained, there is little that can be done on-board to process this data. Current estimate in excess of 500,000 images and the laser mesh can only be processed by specialists off the Vessel.